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T070307

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3. Document Type:

- ☒ Letter
☐ Memorandum
☐ Report
☐ Publication
☐ Other (Specify)

a. If letter or memo:

To: H. H. Ferguson
From: T. C. Roy
Subject: IODINE SKIN PENETRATION
EXPERIMENT, ROY-2-66N.

b. If report:

Title:

4. Document Date:

December 20, 1966

c. If publication:

Name:
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5. Summary (2-3 lines indicating the major subject(s) of the document): Letter transmits attachment, which is **DRAFT** proposed INC Standard Practice which assures responsibility and authority for the conduct of the experiment, and records the consent of each volunteer.

6. Name and telephone number of person completing form: Burton R. Baldwin (208) 525-0203	7. Organization: Lockheed Idaho Technologies Co.	8. Date: March 28, 1995
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- ☐ Check here if a copy of the document is being sent to Headquarters.

HUMAN RADIATION EXPERIMENTS

RECORDS PROVENANCE FORM

REPOSITORY NAME	INEL
COLLECTION NAME	OFFICE OF CHIEF COUNSEL SUBJECT FILES
BOX NUMBER	INEL BOX NO. 23399
ADDITIONAL LOCATION INFORMATION	THE BOX IS STORED AT CFA-674-E RECORDS HOLDING AREA, LOCATION UT6B THE RECORD STORAGE RECEIPT NUMBER IS 2613 FOLDER: SAFETY-16 IODINE RADIATION EXPERIMENTS
FILE TITLE	IODINE SKIN PENETRATION EXPERIMENT Roy-2-66N
TOTAL PAGES	
BATE NUMBER RANGE	
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DOCUMENT NO.: T070307

DOCUMENT TITLE: IODINE SKIN PENETRATION EXPERIMENT Roy-2-66N

CROSS REFERENCES:

ITEMS OF INTEREST:



IDAHO NUCLEAR CORPORATION

RECEIVED	
DEC 21 1966	
Please Note and Return To H. H. Ferguson	
ROUTE	INITIAL

208-522-6640

IDAHO FALLS, IDAHO 83401

December 20, 1966

Iodine Skin
Penetration Experiment
Roy-2-66N

NOTEGRAM

To: H. H. Ferguson

From: T. C. Roy:emb

We have reviewed your draft and have made changes which can be identified by parentheses. Your comments in regard to the changes would be appreciated.

cc: E. A. King
T. C. Roy
File

REPOSITORY INEL

COLLECTION OFFICE OF CHIEF COUNSEL SUBJECT FILE
23399, UT68 CEA-67VE

BOX No. FILE: SAFETY-16 IODINE RADIATION EXPERIMENT
IODINE SKIN PENETRATION

FOLDER EXPERIMENT Roy-2-66N

*advised Roy on
12/21/66 - O.K.
Revised draft will
be sent to
Vick & P. = L.
for review.
12/20/66*

Ferguson

IODINE SKIN ABSORPTION EXPERIMENT

Purpose

For the individual participating in the Iodine Skin Penetration Experiment to acknowledge that he understands the nature and the purpose of the experiment (s) including the amount of radiation exposure involved. Note the attached form.

Scope

This Standard Practice will apply to all Idaho Nuclear Corporation employees who participate in the Iodine Skin Penetration Experiment.

Objective

added
O.K.
[Signature]

To assure that each Idaho Nuclear employee participating in the Iodine Skin Penetration Experiment understands the nature and the purpose of the experiment (s) as well as the exposures to radiation associated with the experiment (s), and that each participant is voluntarily participating in this experiment of his own free will and accord.

Responsibility

It shall be the responsibility of the Health and Safety Services Supervisor to assure that the participant does not receive an excessive exposure of radio-iodine to the thyroid, and that he is fully informed as to the nature, importance and purpose of the experiment, the manner in which it will be conducted and the degree of potential exposure.

The experiments will be conducted under competent medical supervision, presumably by Dr. George Voelz, the AEC Medical Doctor. Exposures will be closely controlled so as not to exceed at any time radiation guide limits established by the Federal Radiation Council. The doctor will select participants after personally interviewing all volunteers. He will summarize each interview and file a summary with the volunteer's medical record.

This experiment will involve exposing a small portion of the skin to radio-iodine vapor. The dose to the thyroid from the penetration of the skin by the vapor should not exceed 30 mrem. Based on current administrative controls, this is one-twelfth (1/12) of a day's exposure. A whole body count will be made to determine the amount of radio-iodine deposited in the body. (The TRA thyroid counter will be used to determine the amount of radio-iodine deposited in the thyroid.)

Added
OK
AB

The data from this experiment should contribute to the development of information as to the degree of penetration of iodine through the skin to the thyroid as result of a radio-iodine atmosphere. Participation in this experiment is to be considered within the scope of your employment with Idaho Nuclear Corporation.

Please read and sign the following statement signifying your willingness to participate in this experiment.

I, _____, do hereby acknowledge that I have volunteered as an employee of Idaho Nuclear Corporation to participate in a scientific investigation to be conducted by Idaho Nuclear Corporation. I realize that my participation in the experiment may result in my receiving internally small quantities of the radioisotopes of iodine which will be less than 10% of the radiation guide limits established in the Federal Radiation Council Report No. 1 for occupational radiation exposure. I understand that I will be required to undergo a physical examination under the direction of the Chief of the ID-USAEC Medical Branch, Health and Safety Division, prior to participation in the experiment, and that subsequent examinations will be required at the discretion of the Chief of the ID-USAEC Medical Branch, Health and Safety Division. I understand that a documented record of these investigations will be on file with both Idaho Nuclear Corporation and the ID Health and Safety offices as part of my occupational exposure and/or medical record.

Witnesses:

Signature

Signature

Signature

Employee

Date

Nuclide Taken	Quantity	Date Taken	T 1/2 eff. days	Chemical Form
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Estimated

Observed

Physical Form

Route

Chief, Medical Branch
ID-USAEC Health & Safety Division

Date

Supervisor, Health & Safety Services
Idaho Nuclear Corporation

Date